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XX 03-JAN-2002.
PP
PP 27-JUN-2001; 2001NO-CA0091E.
XX
XX 27-JUN-2000; 2000NS-0604864.
XX
XX (UYEF-) UNIV BRITISH COLUMBIA.
XX
XX Hancock KEM, Zhang L;
XX WPI; 2002-126915/23.
XX
XX Novel isolated cationic, polypeptidic-like peptide having two
XX anti-parallel beta strands stabilised by two disulfide bonds, beta
XX hairpin loop and antimicrobial activity useful to inhibit bacterial,
XX yeast, viral growth -
XX
XX Claim 3; Page 35; 57pp; English.
XX
XX The invention relates to cationic, polypeptidic-like peptide having
XX antimicrobial activity. These cationic peptides have two anti-parallel
XX beta strands stabilised by two or more disulfide bonds and a beta
XX hairpin loop. Peptides of the invention are useful for inhibiting the
XX growth of bacteria, fungi, viruses, protozoa, and other microorganisms
XX (e.g., Escherichia coli, Pseudomonas aeruginosa, or Salmonella
XX typhimurium), and for treating bacterial, fungal, viral, and other
XX diseases, such as human immunodeficiency virus (HIV-1) and other viruses
XX such as influenza A virus, herpes virus, hepatitis A virus, or hepatitis
XX C virus. Polypeptidic-like peptides are also used to inhibit endorexia
XX and to inhibit the growth of microorganisms. The peptides are used as
XX sterilants of materials susceptible to microbial or viral contamination,
XX as broad spectrum antimicrobial agent directed towards various
XX microorganisms, as preservatives for food, as preservatives for processed
XX foods either alone or in combination with antibacterial food additives
XX such as lysozymes; as a topical agent (Pseudomonas, Streptococcus and
XX CC to kill odour producing microbes (Micrococci). The present sequence is
XX limited polypeptidic polypeptidic-like peptide.
XX
XX Sequence 18 Aa;

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AAEL9478 Length: 18 August 28, 2003 07:00 Type: P Check: 3063
Found using 'seq1' (Ama972.key)

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1 1 18
1 1 18

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-- Search Statistics --

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Times:                                CWT      Total elapsed
                                00:00:00.00      00:00:00.00

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Number of sequences searched:      11
Number of sequences matched:      2
Number of separate matches:      2
Number of sequence hits saved:      0

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! FINDPATTERNS ON PIR:* allowing 0 mismatches
!      1 WFF(F,Y,W,A,L,I,V)(K,R,H,F,Y,W)BS(K,R,H)(K,R,H,F,Y,W)ECRR
Databases searched:
  NBRF, Release 76.1, Released on 12May2003, Formatted on 10Jun2003
    Total finds:      0
    Total length:    96,188,682
    Total sequences: 293,308
    CPU time:       62:27.99

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1 FINDPATTERNS on Swiss-Proti:* allowing 0 mismatches
1      1 WFF(F,Y,W,A,L,I,V)VC(K,R,H,F,Y,W)SG(K,R,H,F,Y,W)KCR(K,R,H,F,Y,W)KCR

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Databases searched:
 SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003

Total finds:	0
Total length:	47,026,705
Total residues:	1,000,000
CPU time:	01:14.46

! FINDPATTERNS on spiretbl:* allowing 0 mismatches

! 1 WFF(Y,W,A,L,I,V)VC(K,R,H,F,Y,W)SC(K,R,H)CR(K,R,H,F,Y,W)KCRH

Databases searched:

SPRINGER, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0

Total length: 258,652,604

Total time: 87.523

Total CPU time: 07:07.89


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PD 03-JAN-2002.
XX 27-JUN-2001; 2001MO-CA00916.
XX 27-JUN-2000; 2000US-0904864.
XX (TFR-) UNIV BRITISH COLUMBIA.
XX Hancock RM, Zhang L;
XX W21; 2002-226915/28.
XX
XX Novel isolated cationic, polypeptin-like peptide having two
XX distinct hairpin loops and a beta strand, which is useful for beta
XX hairpin loop and antimicrobial activity useful to inhibit bacterial,
XX yeast, viral growth.
XX
XX Claim 3; Page 35; 57pp; English.
XX
XX The invention relates to cationic, polypeptin-like peptides having
XX two distinct hairpin loops and a beta strand, which are useful for
XX beta strands stabilized by two or more disulfide bonds and a beta
XX hairpin loop. Peptides of the invention are useful for inhibiting the
XX growth of microbes such as gram positive (e.g., Staphylococcus aureus,
XX Streptococcus pneumoniae, Streptococcus pyogenes, Streptococcus
XX (e.g., Escherichia coli, Pseudomonas aeruginosa, or Salmonella
XX typhimurium) bacteria; fungi such as Candida albicans; envelope viruses
XX such as influenza A virus, hepatitis virus, HIV, and herpes virus;
XX C virus. Polypeptin-like peptides are also used to inhibit endotoxemia
XX or sepsis-associated disorders (e.g., septic shock), as preservatives or
XX as broad spectrum antimicrobial agent directed towards various
XX applications including the use of peptides as preservatives in processed
XX foods, as preservatives in pharmaceuticals, as preservatives in
XX such as lysozymes; as a topical agent (Pseudomonas, Streptococcus and
XX to kill odor producing microbes (Micrococci). The present sequence is
XX Limulus polyphemus polypeptin-like peptide.
XX
XX Sequence 19 Aa:
XX
XX AMR19476 Length: 19 August 28, 2003 07:00 Type: P Check: 4644 ..
XX Found using seq16 (kamb2.1057)
XX
XX |-----|
XX 1 MRCVCKGKQCTVACRS
XX 1
XX
XX -- Search Statistics --
XX
XX Times: CPU 00:00:00.00 Total Slipped
XX 00:00:00.00
XX
XX Number of sequences searched: 11
XX Number of sequence matches: 2
XX Number of sequence matches: 2
XX Number of sequence hits saved: 0

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! FINDPATTERNS on PIR: * allowing 0 mismatches

! 1 (K,R,H,F,Y,M)RWCFYCY(K,R,H)G(K,R,H,F,Y,M)C(K,R,H)(P,Y,N,A,L,I,V)(K,R,H,F,Y,M)

Databases searched:
 NBRF, Release 76.1, Released on 12May2003, Formatted on 10Jun2003

Total finds: 0
 Total length: 96,188,682
 Total sequences: 233,308
 CPU time: 03:31.47

! FINDPATTERNS on Swiss-Prot:* allowing 0 mismatches

1 1 (K,R,H,P,Y,N)KNCFWCY(K,R,H)G(K,R,H,F,Y,N)K(K,R,H,I,V)(K,R,H,F,Y,N)

Databases searched:

SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003

Total finds:	0
Total length:	47,036,705
Total sequences:	127,863
CPU time:	02:47:51

! FINDPATTERNS on seq15spt.* allowing 0 mismatches

! 1 (K,R,H,F,Y,W)BWCERVCX(K,R,H)G(K,R,H,P,Y,W)C(K,R,H)(P,Y,W,A,L,I,V)(K,R,H,F,Y,W)

Databases searched:
SP73BML, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0
Total length: 258,032,604
Total sequences: 870,225
CPU time: 15:20.19

! FINDPATTERNS on PIR:* allowing 0 mismatches
! 1 ERWCF(F,Y,A,L,I,V)VC(K,R,H)SG(K,V,A)CT(R,V,A)(R,V,A)CR

Databases searched:
 NMR, Release 76.1, Released on 12May2003, Formatted on 10Jun2003
Total finds: 0
Total length: 96189.682
Total matches: 1021.052
CPU time: 02:31.79

! FINDPATTERNS on Swiss-Prot: * allowing 0 mismatches

! 1 HRCGF(F,Y,W,A,L,I,V)VC(K,R,H)RG(R,V,A)CT(R,V,A)(R,V,A)CK

Databases searched:
SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003

Total finds:	0
Total length:	47,026,705
Total sequences:	17,483
CPU time:	01:14:39

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! FINDPATTERNS on sptrebl.* allowing 0 mismatches
!      1 KMWCF(F,Y,W,A,L,I,V)VC(K,R,H)BG(R,Y,A)CY(S,V,A)(R,V,A)CR
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Databases searched:
  SPTREBL, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0
Total length: 255,032,604
Total classes: 67,425
CPU time: 07:14.40
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1  INFANTRYENGINEER  17
-- Search Statistics --
Times:              CPU              Total Elapsed
              00:00:00.00      00:00:00.00

Number of sequences searched:      11
Number of sequence hits:           2
Number of sequence hits saved:     0
Number of sequence hits deleted:   0

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! FINDPATTERNS on PIR:* allowing 0 mismatches

! 1 R(F,Y,W,A,L,I,V)NC(K,R,H)(K,R,H,F,Y,W)(K,R,H,F,Y,W)(K,R,H,F,Y,W)(F,Y,W)

Databases searched:

MSR, Release 76.1, Released on 12May2003, Formatted on 10Jun2003

Total finds: 0

Total length: 96,188,682

Total residues: 1,000,000

CPU time: 02:52.77

! FINDPATTERNS on Swiss-Prot.* allowing 0 mismatches

! 1 E(P,Y,N,A,L,I,V)NC(K,R,H)(K,R,H)CTRGPC(K,R,H)(K,R,H,F,Y,W)(F,Y,N

Databases searched:

SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003

Total finds: 0

Total length: 47,056,705

Total residues: 1,000,000

CPU time: 01:26.17

! FINDPATTERNS on sptemb1.* allowing 0 mismatches

: 1 R(P,Y,N,A,L,I,V)MC(K,R,B)(K,R,B)CTGSPC(K,R,B)(K,R,B,F,Y,N)(F,Y,N)

Databases searched:

SPRINTBL, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0

Total length: 258,052,604

Total matches: 0

Total CPU time: 08:15.75

> O <
O I O Intelligenetics
> O <

Quest - Quick User-directed Expression Search Tool
Release 5.4

-- Outline of search "seqlags" --

Selected search type is key against sequence data banks or files.

Selected scope is sequence "key872 key".

One file is selected: "seq18 AA preliminary pattern

1 seq18 (AA) ID seq18 AA preliminary pattern

2 followed by

3 k or r or h

4 r or y or w or a or l or i or v

5 seq18

6 seq18

7 seq18

8 seq18

9 seq18

10 seq18

11 seq18

12 seq18

13 seq18

14 seq18

15 seq18

16 seq18

17 seq18

18 seq18

19 seq18

20 seq18

21 seq18

22 seq18

23 seq18

24 seq18

25 seq18

26 seq18

27 seq18

28 seq18

29 seq18

30 seq18

31 seq18

32 seq18

33 seq18

34 seq18

35 seq18

36 seq18

37 seq18

38 seq18

39 seq18

40 seq18

41 seq18

42 seq18

43 seq18

44 seq18

45 seq18

46 seq18

47 seq18

48 seq18

49 seq18

PA (USER) UNIV BRITISH COLUMBIA.

XX PI Hancock RW, Shang L;

XX RX WPI: 2002-226915/28.

XX Note: isolated cationic, polyphemus-like peptides having two

XX PI hairpin loop and antimicrobial activity useful to inhibit bacterial,

XX RX yeast, viral growth -

XX PI Claim 3; Page 35; 57pp; English.

XX RX The invention relates to cationic, polyphemus-like peptides having

XX PI beta strands stabilized by two or more disulfide bonds and a beta

XX RX hairpin loop. Peptides of the invention are useful for inhibiting the

XX PI growth of microbes such as gram positive (e.g., *Staphylococcus aureus*,

XX RX (e.g., *Escherichia coli*, *Pseudomonas aeruginosa*, or *Salmonella*

XX PI typhimurium) bacteria, fungi such as *Candida albicans*, envelope viruses

XX RX such as HIV-1, hepatitis A virus, hepatitis B virus, or hepatitis

XX PI C virus. Polyphemus-like peptides are also used to inhibit endotoxemia

XX RX or sepsis-associated disorder (e.g., septic shock or pre-eclampsia) or

XX PI as broad spectrum antimicrobial agent directed towards various

XX RX applications including the use of peptides as preservatives in processed

XX PI food, as preservatives in food, as preservatives in food, as preservatives

XX RX such as lysozyme; as a topical agent (*Pseudomonas*, *Streptococcus* and

XX PI to kill odour producing microbes (*Micrococc*). The present sequence is

XX RX *Limulus polyphemus* polyphemus-like peptide.

XX PI Sequence 18 AA;

XX RX

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-- Run Parameters --

Run mode Time to start compilation Batch

Notify at end of run Now

1 match found in sequence:

(from "key872.key")

TOIG of: key872.key

check: 3049 from: 1 to: 18

ID ABE19479 standard; peptide: 18 AA.

XX AC ABE19479;

XX AC ABE19479;

XX DT 31-MAR-2002 (first entry)

XX Limulus polyphemus polyphemus-like peptide #10.

XX Limulus polyphemus-like peptide; antimicrobial; sepsis-associated disorder;

XX human immunodeficiency virus 1; HIV-1; endotoxemia; septic shock;

XX Preservative; sterilant; food additive; topical agent.

XX Limulus polyphemus.

XX Key

XX Location/Qualifiers

XX modified-site 18

XX /note= "Amidated"

XX WC20020637-12.

XX 03-JAN-2002.

XX 27-JUN-2001; 2001R0-CA00518.

XX 27-JUN-2000; 2000S-0504864.

XX PR

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-- Search Statistics --

Times: CPU 00:00:00.00

Number of sequences searched: 11

Number of sequence hits: 1

Number of sequences: 1

Number of sequence hits saved: 0

ABE19479, Length: 18, August 28, 2003 07:00 Type: P Check: 3049

Found using seq18 (key872.key)

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Thu Aug 28 07:32:56 2003

seq18pir.find

Page 1

! FINDPATTERNS ON PIR:* allowing 0 mismatches

! 1 NMC(K,R,H)VCY(F,Y,W,A,L,I,V)BCYRCCR

August 27

Databases searched:
NBRF, Release 76.1, Released on 12May2003, Formatted on 10Jun2003

Total finds: 0
Total length: 96,168,682
Total sequences: 293,308
CPU time: 02:08.50

! FINDPATTERNS ON SWISS-PROT:* allowing 0 mismatches

! 1 ERMG(E,R)EWCY(P,Y,N,A,L,I,Y)DCTYRRCR

August 27

Databases searched:

SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 9Jun2003

Total finds: 0

Total length: 47,026,705

Total sequences: 177,863

CPU time: 0.105.55

Thu Aug 28 07:32:56 2003

seq18spt.find

Page 1

! FINDPATTERNS ON spiretbl.* allowing 0 mismatches
! 1 HWC(G.A.R)RVCY(F.Y.N.A.L.V)SUCYRKR

August 27

Databases searched:
SPIDRBL/ Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0
Total length: 258,052,604
Total sequences: 830,525
CPU time: 03:07.82

! FINDPATTERNS on FPI.* allowing 0 mismatches

1 1 RWCJFVCTRG(M.R.H)CTRKCR

August 27, 2003 06:54

Databases searched:

NRFP, Release 76.1, Released on 12may2003, Formatted on 10Jun2003

Total finds: 0

Total length: 96169.682

Total matches: 23730

CPU time: 01:57.78

! PINEPATTERNS ON SWISS-PROT: allowing 0 mismatches

! 1 ERMCFEVYNS(E.R.H)PTCRCE

August 27, 2003 06:55

Databases searched:

SWISS-PROT, Release 41.1, Released on 6Jun2003, Formatted on 5Jun2003

Total finds: 0

Total length: 47,026,705

Total sequences: 12,683

CPU time: 59.41

1 FINDPATTERNS on spiremb1.* allowing 0 mismatches

1 1 RHWCFVCTG(K,R,H)CTCKCR

August 27, 2003 06:48

Databases searched:

SPRISBL, Release 23.0, Released on 4Mar2003, Formatted on 7Mar2003

Total finds: 0

Total length: 259,032,604

Total matches: 0

CPU time: 03:50.39